

City of Sunnyvale
Ten Year Project Costs
by Project Category and Type

Project Number	Project Name	Prior Years Actual	Revised Budget 2005-06	Plan 2006-07	Plan 2007-08	Plan 2008-09	Plan 2009-10	Plan 2010-11	Plan 2011-12	Plan 2012-13	Plan 2013-14	Plan 2014-15	Plan 2015-16	Ten Year Plan Total	Project Grand Total
<div> <div>Category: Special</div> <div>Type: Water</div> </div>															
824280	Leak Detection Program	29,457	6,555	0	30,600	0	0	32,473	0	0	34,461	0	0	97,534	133,546
824290	Water Cost of Service Study	8,805	72,798	0	0	0	26,493	0	0	0	0	29,541	0	56,034	137,637
824810	Downtown Water Line Engineering Study	0	10,000	0	0	0	0	0	0	0	0	0	0	0	10,000
Total		38,262	89,353	0	30,600	0	26,493	32,473	0	0	34,461	29,541	0	153,568	281,183

Note: Projects with \$0 Grand Total have budgets in the second ten years of the Twenty Year Plan.

Project Information Sheet

Project: 824280 Leak Detection Program

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2003-04	Phase:	Implementation	Project Manager:	Jim Craig
Planned Completion Year:	Ongoing	% Complete:	0	Project Coordinator:	Jim Craig
Origin:	Staff			Interdependencies:	Finance
Element:	3 Environmental Management	Goal:	3.1D.1 & 3.1G.4	Fund:	455 Utilities
Sub-Element:	3.1 Water Resources	Neighborhood:	City Wide	Sub-Fund:	100 Water Supply and Distribution

Project Description and Statement of Need

As recommended by the California Urban Water Conservation Council and as identified in the City's adopted 2000 Urban Water Management Plan as Best Management Practice #3, leak detection and system water audits are to be performed every three years. Any water loss due to leakage, theft, under-billing of customers, faulty control systems, or any other reason represents revenue losses to the City. Follow up actions when leaks are located may include repairing leaky pipes and valves, replacement of water mains with a history of serious leaks, annual exercising of valves, and a corrosion control procedure (i.e. cathodic protection program). The primary benefit of early leak detection is catching a leak before it becomes a larger problem, resulting in more water lost. Leak repair also keeps leaks from deteriorating into large-scale leaks that can lead to system failures causing emergency conditions and compromising public safety. The City would benefit by decreased costs of large repairs from water main breaks, decreased capital costs for production, transport, storage, treatment, distribution, and wastewater treatment, as well as decreased costs for Operations and Maintenance, energy, chemicals, treatment, and labor (overtime).

This program was started in FY 03/04 and successful at identifying leaks along the 21 miles tested. We are currently awaiting approval for funding to complete 190 miles of leak detection for \$36,011 with carryover funds. The project will provide funding to do a leak detection assessment of about 150 miles of City pipes every 3 years at an estimated cost of \$30,000 per year.

Service Level

none

Issues

none

Project Financial Summary

Financial Data	Prior Actual	Budget 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	10 Year Budget	Grand Total
Project Costs	29,457	6,555	0	30,600	0	0	32,473	0	0	34,461	0	0	97,534	133,546
Revenues														
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfers-In														
Fund Reserves		0	0	30,600	0	0	32,473	0	0	34,461	0	0	97,534	
Total	29,457	6,555	0	30,600	0	0	32,473	0	0	34,461	0	0	97,534	133,546
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 824290 Water Cost of Service Study

Category:	Special	Type:	Water	Department:	Finance
Origination Year:	2003-04	Phase:	Ongoing	Project Manager:	Tim Kirby
Planned Completion Year:	Ongoing	% Complete:	n/a	Project Coordinator:	Jim Craig
Origin:	Staff			Interdependencies:	Public Works
Element:	3 Environmental Management	Goal:	3.1E	Fund:	455 Utilities
Sub-Element:	3.1 Water Resources	Neighborhood:	City Wide	Sub-Fund:	100 Water Supply and Distribution

Project Description and Statement of Need

Every five years, the Utilities Division in the Department of Finance intends to perform a cost of service study of the water system to reallocate the costs of the City's water services among the various customer classes, based on their use of each service. Staff will work with a water finance specialist to develop a cost of service model and populate the model with current data. The study generates a cost of service for each customer class and recommends adjustments to the rate structure to ensure costs are recovered on an equitable basis from the different customer classes. This type of study has not been performed for the water system in many years. The initial project cost will be high, with future years being lower as a contractor will be able to work with an existing model.

Service Level

none

Issues

none

Project Financial Summary

Financial Data	Prior Actual	Budget 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	10 Year Budget	Grand Total
Project Costs	8,805	72,798	0	0	0	26,493	0	0	0	0	29,541	0	56,034	137,637
Revenues														
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfers-In														
Fund Reserves		0	0	0	0	26,493	0	0	0	0	29,541	0	56,034	
Total	8,805	72,798	0	0	0	26,493	0	0	0	0	29,541	0	56,034	137,637
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Information Sheet

Project: 824810 Downtown Water Line Engineering Study

Category:	Special	Type:	Water	Department:	Public Works
Origination Year:	2004-05	Phase:	Planning	Project Manager:	Hira Raina
Planned Completion Year:	Ongoing	% Complete:	n/a	Project Coordinator:	Barbara Keegan
Origin:	Staff			Interdependencies:	none
Element:	3 Environmental Management	Goal:	3.1C	Fund:	455 Utilities
Sub-Element:	3.1 Water Resources	Neighborhood:	City Wide	Sub-Fund:	100 Water Supply and Distribution

Project Description and Statement of Need

This project involves a study to determine condition and appropriate water line size to service new Downtown redevelopment and the surrounding area.

Contract engineering professionals will provide hydraulic studies to verify that the water system for new developments is adequately designed and to give the City a real-time water distribution system model. It will also verify current operating procedures and maintain historical records (block maps, GPS, etc.). The City does not have operating resources to do all of these necessary tasks.

Service Level

The project will determine requirements to service adequately the new development in the Downtown area.

Issues

none

Project Financial Summary

Financial Data	Prior Actual	Budget 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	10 Year Budget	Grand Total
Project Costs	0	10,000	0	0	0	0	0	0	0	0	0	0	0	10,000
Revenues														
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfers-In														
Fund Reserves		0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	10,000	0	0	0	0	0	0	0	0	0	0	0	10,000
Operating Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0